

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing of claims in the application:

Listing of the Claims:

Claims 1-22 (canceled).

1 Claim 23 (currently amended): ~~Fibre~~ A fibre reinforced
2 pressurizable structure comprising a gas or fluid-tight body
3 overwound as an isotensoide with ~~a number of~~ one or more
4 fibre filaments, the fibre filaments having a longitudinal
5 axis defined along their length, whereby wherein the radius
6 of the body varies with respect to a rotation-symmetrical
7 axis of the pressurizable structure, such that said body
8 comprises ~~a number of~~ at least one concave surface section
9 spaced apart from the axial ends, ~~each having~~ wherein each
10 concave surface section has a local minimum radius, and a
11 number of and further comprising at least one convex surface
12 section spaced apart from the axial ends, ~~each having~~
13 wherein each convex surface section has a local maximum
14 radius, characterized in that wherein at least one concave
15 surface section is continuously overwound with a fibre
16 filament as an isotensoide.

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1 Claim 24 (currently amended): ~~Fibre~~ A fibre reinforced
2 pressurizable structure according to claim 23, ~~characterized~~
3 ~~in that~~ wherein the fibre windings in filaments overwinding
4 the at least one concave surface section comprise a
5 ~~non-pressurized state of the structure a multiple number~~
6 plurality of substantially straight fibre filaments forming

7 a hyperboloid ~~when the at least one concave surface section~~
8 ~~is non-pressurized.~~

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1 Claim 25 (currently amended): ~~Fibre~~ A fibre reinforced
2 pressurizable structure according to claim 23, ~~characterized~~
3 ~~in that the fluid-tight body wherein the pressurizable~~
4 ~~structure~~ is quasi-geodesically overwound in a continuous
5 fashion.

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1 Claim 26 (currently amended): ~~Fibre~~ A fibre reinforced
2 pressurizable structure according to claim 23, ~~characterized~~
3 ~~in that wherein~~ the longitudinal orientation of the fibre
4 filament along a finite length thereof is oriented
5 substantially perpendicular with respect to the
6 rotation-symmetrical axis of the structure.

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1 Claim 27 (currently amended): ~~Fibre~~ A fibre reinforced
2 pressurizable structure according to claim 23, ~~characterized~~
3 ~~in that wherein~~ the fibre ~~in a pressurized state undergoes~~
4 ~~torsion with respect to its longitudinal center line, so~~
5 ~~that~~ filaments undergo torsion with respect to the
6 longitudinal center-line of the pressurizable structure when
7 the pressurizable structure is in a pressurized state,
8 whereby substantially one side of the curved fibre remains
9 in contact with the body in the at least one concave surface
10 section.

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1 Claim 28 (currently amended): ~~Fibre~~ A fibre reinforced
2 pressurizable structure according to claim 23, characterized
3 in that in a pressurized state there is reversal of the side
4 of the fiber filaments in contact with the at least one
5 concave surface section relative to the side of the fiber

6 filaments in contact with the at least one convex surface
7 section.

Claims 29-38 (canceled).

1 Claim 39 (new): A fibre reinforced pressurizable structure
2 according to claim 23, wherein the body is flexible, i.e.,
3 non-rigid, and the fibre filaments are supported by a matrix
4 material.

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1 Claim 40 (new): A fibre reinforced pressurizable structure
2 according to claim 23, whereby the axial length of at least
3 one axial section of the pressurizable structure is variable
4 with respect to the longitudinal axis of the pressurizable
5 structure.

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1 Claim 41 (new): A fibre reinforced pressurizable structure
2 according to claim 23, wherein at least one axial section of
3 the pressurizable structure is pivotable with respect to the
4 longitudinal axis of the pressurizable structure.

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1 Claim 42 (new): A fibre reinforced pressurizable structure
2 according to claim 23, wherein at least one axial section of
3 the structure is pivotable with respect to an axis, wherein
4 the axis is orthogonal to the longitudinal axis of the
5 pressurizable structure.

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1 Claim 43 (new): A fibre reinforced pressurizable structure
2 according to claim 40, wherein at least one axial section of
3 the pressurizable structure comprises a combination of at
4 least two of the following technical elements; (i) at least
5 one axial section of the pressurizable structure is

6 pivotal with respect to the longitudinal axis of the
7 pressurizable structure; (ii) the axial length of the at
8 least one axial section of the structure is variable with
9 respect to the longitudinal axis of the pressurizable
10 structure; (iii) the axial section of the structure is
11 pivotal with respect to an axis, wherein the axis is
12 orthogonal to the longitudinal axis of the pressurized
13 structure.

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1 Claim 44 (new): A fibre reinforced pressurizable structure
2 according to claim 23, wherein the pressurizable structure
3 comprises a one, two or three dimensional arrangement of a
4 plurality of pressurizable fuel tanks or pipelines.

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1 Claim 45 (new): A fibre reinforced pressurizable structure
2 according to claim 24, wherein the pressurizable structure
3 further comprises a spring that provides a load-displacement
4 function.

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1 Claim 46 (new): A fibre reinforced pressurizable structure
2 according to claim 23, wherein the pressurizable structure
3 further comprises an actuator for applications in elevators,
4 excavators and industrial robots, among others.

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1 Claim 47 (new): A fibre reinforced pressurizable structure
2 according to claim 23, wherein the pressurizable structure
3 provides a shoring or strutting function in combination with
4 construction beams.

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1 Claim 48 (new): A fibre reinforced pressurizable structure
2 according to claim 47, wherein the shoring or strutting
3 functions in combination with construction beams are

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4 adaptable to the Eigen-frequencies of the pressurizable
5 structure.